## Case: 3:99-cv-00475-slc Document & 150 y, Filed 1, 1/20/15 Page 1 of 57 January 30, 2015

SUPERIOR COURT OF WASHINGTON FOR PIERCE COUNTY					
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LARRY HOFFMAN and JUDITH ) HOFFMAN, husband and wife, )					
Plaintiffs, ) No. 14-2-07178-2					
vs. )					
ALASKAN COPPER COMPANIES, ) INC.; et al., )					
Defendants. ))					
TELEPHONIC DEPOSITION OF					
EXPERT EARL D. GREGORY, PH.D., CIH  Friday, January 30, 2015					

11:03 a.m.

REPORTED BY: GISELLE GIRARD CSR #12901

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```
1
     TELEPHONIC APPEARANCES:
2
     For Plaintiff:
3
             LEVIN SIMES, LLP
4
             BY: TIMOTHY F. PEARCE, ESQ.
             353 Sacramento Street
5
             Suite 2000
             San Francisco, California 94111
6
             415-426-3000
             415-981-1270
                           Fax
7
             tpearce@levinsimes.com
8
     For Defendant Trane USA, Inc., and the Witness:
9
             GORDON & REES, LLP
10
             BY: MARK B. TUVIM, ESQ.
             701 Fifth Avenue
11
             Suite 2100
             Seattle, Washington 98104
12
             206-695-5100
             206-689-2822 Fax
13
             mtuvim@gordonrees.com
14
     For Defendant Cleaver-Brooks, Inc., and Saberhagen
1.5
     Holdings, Inc.:
16
             CARNEY BADLEY SPELLMAN
             BY: TIMOTHY K. THORSON, ESQ.
17
             701 Fifth Avenue
             Suite 3600
18
             Seattle, Washington 98104
             206-622-8020
19
             206-467-8215
                           Fax
             thorson@carneylaw.com
20
     For Defendant Familian Northwest, Inc.:
21
             FOLEY & MANSFIELD, PLLP
22
             BY: JAN E. BRUCKER, ESQ.
             800 Fifth Avenue
23
             Suite 3850
             Seattle, Washington 98104
             206-456-5360
24
             206-456-5361 Fax
25
             jbrucker@foleymansfield.com
                                                                 2
```

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```
1
     TELEPHONIC APPEARANCES (Continued):
2
     For Defendant Oakfabco, Inc.:
3
             OGDEN MURPHY WALLACE, PLLC
             BY: ROBERT G. ANDRE, ESO.
4
             901 Fifth Avenue
             Suite 3500
5
             Seattle, Washington 98164
             206-447-7000
6
             206-447-0215 Fax
             randre@omwlaw.com
7
8
     For Defendant Armstrong International, Inc.:
9
             PREG O'DONNELL & GILLETT, PLLC
                  JENNIFER D. LOYND, ESQ.
             BY:
10
             901 Fifth Avenue
             Suite 3400
11
             Seattle, Washington 98164
             206-287-1775
12
             206-287-9113 Fax
             jloynd@pregodonnell.com
13
14
     For Defendant General Electric Company and Whitney
     Holding Corporation:
15
             SEDGWICK, LLP
16
             BY: CHRIS S. MARKS, ESQ.
             520 Pike Street
17
             Suite 2200
             Seattle, Washington
                                   98101
18
             206-462-7560
             206-462-7561
                          Fax
19
             chris.marks@sedgwicklaw.com
20
     For Defendant Expert Drywall, Inc.:
21
             THORSRUD CANE & PAULICH
22
             BY: DANA C. KOPIJ, ESQ.
             1300 Puget Sound Plaza
23
             1325 Fourth Avenue
             Seattle, Washington 98101
24
             206-386-7755
             206-386-7795 Fax
25
             dkopij@tcplaw.com
                                                                 3
```

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```
1
      TELEPHONIC APPEARANCES (Continued):
2
      For Defendant Ketchikan Pulp Company:
3
             WILLIAMS KASTNER
             BY: MALIKA I. JOHNSON, ESQ.
4
             601 Union Street
             Suite 4100
5
             Seattle, Washington 98101
             206-233-2974
6
             206-628-6611 Fax
             mjohnson@williamskastner.com
7
8
9
10
11
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1	EXHIBITS					
2	EXPERT EARL D. GREGORY, PH.D., CIH					
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1 Friday, January 30, 2015 2 3 EARL D. GREGORY, PH.D., CIH, 4 having been first duly affirmed, was examined and 5 testified as follows: 6 EXAMINATION 8 9 BY MR. PEARCE: 10 Good afternoon, sir -- I believe it's afternoon 11 where you are. Can you hear me okay? 12 If you can speak a little louder, that would be 13 better. 14 Q. And, sir, can you state your full name for the 15 record. 16 Earl Daniel Gregory. 17 And I understand that you have a Ph.D. in -- you Q. 18 have a Ph.D.; correct? 19 Ph.D. in industrial hygiene, that's correct. Α. 20 Q. So where are you presently located? 21 My address is 5718 Yamassee Drive -- that's my 22 home address in Hamilton, Ohio. And I'm giving this 23 deposition in Westchester, Ohio at a Marriott. 24 And I understand that Mr. Tuvim is with you. Ιs 25 anybody else with you? 7

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1 Α. No, that's it. 2 And by whom have you been retained in this case? Q. 3 By Mark Tuvim. Α. 4 Q. Do you know for which defendant? 5 Yes. For Trane as well as Oakfabco, 6 Incorporated. And when were you retained? Q. 8 Approximately two weeks ago, two to three weeks Α. 9 ago. 10 0. All right. And how were you retained? 11 phone call, was it an e-mail? How did that happen? 12 Α. It was a phone call from Mark Tuvim. 13 And have you worked for Mr. Tuvim before? 0. 14 Α. No, this is the first time. 15 All right. Have you worked for either Oakfabco 16 or Trane before? 17 Yes, I have worked and represented Trane in other 18 American Standard cases. 19 Is it correct to say that you have never done any 20 work with regards to Oakfabco before? 21 Yes, I've never testified on their behalf. 22 Although I have written some statements of opinion that 23 have involved both American Standard and Kewanee 24 boilers. 25 Q. And do you have a file here today?

1 I brought documents with me today that I 2 plan -- that were asked of me. 3 And what's in your file? Q. 4 Well, I have my notes from Mr. Hoffman's 5 Volumes I, II and III of his depositions; I have a 6 summary for Hoffman related to American Standard and Kewanee boilers only; and I have notes based on my 8 review of the motion for summary judgment; the 9 declaration of Kevin Craig, that's how that's entitled; 10 there's also notes from the affidavit of Richard 11 Weisbecker; and notes from Richard Olson's affidavit; 12 and I have my C.V. and copies of the correspondence that 13 I've had with Mark Tuvim. 14 Q. All right. 15 MR. PEARCE: Let's mark as Exhibit 1 your notes. 16 THE WITNESS: Okay. 17 (Plaintiffs' Exhibit 1 was marked for 18 identification and attached hereto.) 19 BY MR. PEARCE: 20 And we'll mark as Exhibit 2 something that you 21 said was your summary about American Standard and 22 Kewanee boilers? 23 Pardon? Exhibit 1 is Notes by Earl Gregory? 24 0. Yeah. And Exhibit 2 is -- you have something 25 called a summary of your opinions as to American

1 Standard and Kewanee boilers? 2 Summary for Hoffman related to American Standard 3 and Kewanee boilers, notes only, yes. 4 MR. PEARCE: Mark, have I seen that document? 5 MR. TUVIM: Yes. I sent them out earlier this 6 morning when I got them. MR. PEARCE: So let me pull that document up. 8 Hold on one second. 9 All right. We'll mark the additional notes as 10 Exhibit 2. 11 (Plaintiffs' Exhibit 2 was marked for 12 identification and attached hereto.) 13 BY MR. PEARCE: 14 Q. So Exhibit 2 is the summary of the American 15 Standard and Kewanee boilers. And on that note, sir, at 16 the very end of that -- how many pages is that? 17 Summary for Hoffman Related to American 18 Standard -- two pages. 19 And then how about for Kewanee boilers? Q. 20 Α. That's together. That would be Exhibit 2, two 21 pages. 22 Q. And what are your notes on the MSJ? Do you --23 Yeah --Α. 24 0. -- I don't know what they are. 25 Yeah, it's just like a quarter of a paragraph. Α. 10

1 It starts off at pages labeled Motion for Summary 2 Judgment. 3 Can you just read it for me, then. Q. 4 Motion for Summary Judgment, "Stated none of the 5 insulation on Trane equipment would have contained 6 Olson and Uhl depositions indicated no asbestos insulation from 1950 on. No rope between 8 sections. Said Hoffman didn't know where he installed 9 Trane equipment, and he didn't say he handled gaskets or 10 packing with them." 11 MR. PEARCE: So we'll mark that Exhibit 3. 12 (Plaintiffs' Exhibit 3 was marked for 13 identification and attached hereto.) BY MR. PEARCE: 14 15 And what are your notes from Weisbecker, and then 16 there's another one as well? 17 Yeah, that's Exhibit 3. That would be Page 2 of 18 that. 19 Q. So you don't have any additional notes. You just 20 reviewed those three declarations and marked that one 21 little paragraph of notes; is that correct? 22 Yeah, the declaration of Dennis Dorman; and Α. 23 affidavit of Richard Weisbecker; and Richard Olson 24 affidavit. 25 Q. And then we'll mark as Exhibit 4 your

1 correspondence file, but can you tell briefly tell me 2 what your correspondence file contains. 3 Basically it is correspondence from Mark Α. 4 Tuvim indicating that there were documents attached for 5 me to review, Volume I, Volume II; and then also Hoffman 6 Style Discovery Responses were attached. Basically it's just an e-mail from Mark to me, 8 the subject indicating Volume I or Volume II of Hoffman, 9 Volume III of Hoffman; Hoffman Style Discovery 10 Responses; Hoffman versus Alaskan Copper Companies, 11 which is material from Oakfabco's counsel for me review; 12 And let's see. And then also to review 13 Plaintiffs' Response to Saberhagen; Plaintiffs' response 14 to Pacific Plumbing; and Response to Familian Rogs; and 15 then Exhibits 1 through 6 from the Declaration of Craig; 16 and Hoffman Motion For Summary Judgment contained in 17 another e-mail correspondence; 18 And then also Plaintiffs' expert Mr. William 19 Ewing's report on this matter was a subject of another 20 e-mail with that being attached; and the only other 21 thing is he asked for my C.V., and I have a copy of my 22 submission of my C.V. to Mark Tuvim. And that's it. 23 Why don't we mark the cover letter 24 without the exhibits attached as next in order --2.5 MR. TUVIM: Tim, we're having a lot of trouble

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     hearing you.
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            MR. PEARCE:
                         Can you mark just the cover letters
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     as next in order.
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            MR. TUVIM: Well, the correspondence -- which
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     cover letter? Just the cover e-mails?
6
            MR. PEARCE: I don't need the actual -- what was
     attached but just the --
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            MR. TUVIM: Right. So is that what you want in
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     Exhibit 4? That's the only correspondence we have.
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            MR. PEARCE: Perfect. That's what I want as 4,
11
     then.
12
            MR. TUVIM: So the cover e-mails will be
13
     Exhibit 4.
14
            MR. PEARCE:
                         Right.
15
             (Plaintiffs' Exhibit 4 was marked for
16
             identification and attached hereto.)
17
            MR. PEARCE: And his C.V. will be 5.
18
            MR. TUVIM: Okay.
19
             (Plaintiffs' Exhibit 5 was marked for
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             identification and attached hereto.)
21
     BY MR. PEARCE:
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            Now, Dr. Gregory, is it still true that you have
        Q.
23
     never published anything or given any presentations
24
     related to asbestos?
25
        A. No. I've given presentations that covered
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asbestos as well as other potential occupational exposures to various chemicals. I haven't published any specific documents that related only to asbestos.

- Q. And what presentations are you referring to that discussed asbestos?
- A. Well, I've given training courses on industrial hygiene techniques and potential health hazards. I've given presentations to various audiences, from college students to industrial hygienists that were studying to take the certification exam.

I've also given presentations to employers and union representatives where I've covered potential occupational health hazards in various industrial operations, and some of those did involve me speaking with asbestos among other potential air contaminants.

- Q. And, sir, I see by your C.V. that you are a member of the ACGIH; is that correct?
- A. I used to be a member. I'm no longer a member because once you no longer work for the government, you can't be a full member of the ACGIH; only government workers can be full members.
- Q. And you agree with me that when you were a member of the ACGIH, you understood that asbestos was an Al carcinogen?
  - A. When I was a member from 1974 to '81, asbestos

1 was listed in the ACGIH TLV booklet, and it was 2 considered at that time a potential carcinogen. 3 Was it considered an Al carcinogen? Do you know Ο. 4 what that means? 5 According to the ACGIH TLV booklet? 6 Ο. Correct. In later years it was. I forget what year that Α. 8 change was made but -- of course I've been in the field 9 of industrial hygiene since 1974, so I can't remember 10 when the classification was changed. 11 And can you tell me what it means to be an A1 12 carcinogen? 13 Well, those are carcinogens that have been, based 14 on the latest scientific evidence, proven to occur as a 15 result of overexposures to various airborne chemical 16 contaminants in the workplace. 17 And you would agree with me that with regards to Q. 18 asbestos, all fiber types are considered an A1 19 carcinogen? 20 I'm sorry. You cut out there towards the end. 21 Could you repeat that. 22 Sure. You would agree with me that with regards Q. 23 to fiber types as to asbestos, all fiber types are 24 considered an Al carcinogen? 25 I don't know if it's classified that way right Α.

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- **January 30, 2015** 1 I know that evidence has indicated that all forms 2 of asbestos have the potential of causing cancer. 3 just a matter of how much exposure dose it takes to 4 increase the incidence of cancer. And it various with 5 the different fiber types. 6 All right. Have you generated a report in this case? 8 No, I did not. Α. 9 All right. Did you attempt to do a total dose Q. 10 reconstruction for Mr. Hoffman in this case? No, I did not. Α. 12 Have you ever testified for a plaintiff in 0. 13 asbestos related litigation, third-party asbestos
  - related litigation?
  - I have never testified. I have written statements -- a statement of opinion. And I've also talked to various law firms by telephone where they discussed the basic issues of a case and asked for at least my preliminary opinions on the case. never given a deposition involving asbestos for a plaintiff.
    - Have you ever testified in trial before? Q.
    - Α. Yes.

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In an asbestos related action? I should have 0. added that in.

1 Α. Yes, I have. 2 On how many prior occasions? Q. 3 I believe I have testified three times on Α. 4 asbestos in trials. 5 And for whom did you testify for at trial? 6 Two times involved Owens-Illinois. And the other time involved my ex-employer, which was Anco Steel 8 Company, where I served as a fact witness. And I also 9 represented Garlock in that particular case as 10 well -- well, I mean I didn't represent. I was an 11 expert witness for Garlock in that particular case. 12 And then there was another Owens-Illinois case. 13 So three Owens-Illinois cases; and one involving my old 14 company, Anco, and Garlock. 15 As an industrial hygienist, you have reviewed 16 Larry Hoffman's deposition; is that correct? 17 Α. That's correct. 18 And when you did your review, you were looking 19 for potential exposures Mr. Hoffman had to asbestos; am 20 I correct? 21 That's correct. Α. 22 All right. And you understand that Mr. Hoffman Q. 23 has mesothelioma? 24 Α. That's my understanding, yes. 25 But you haven't reviewed any of his medical Q.

1 records; is that correct? 2 No, I have not. Α. 3 As an industrial hygienist, did you form any Q. 4 opinions about any potential exposures that Mr. Hoffman 5 might have had, either occupationally or 6 para-occupationally, to asbestos which would have contributed to his development of mesothelioma? 8 Well, that's more or less, in my opinion, a Α. 9 medical question. I don't like to get into the 10 causation of mesothelioma. My purpose as an industrial 11 hygienist is to determine what potential asbestos 12 exposures a person may have had during their 13 occupational and nonoccupational careers, or exposure 14 periods. 15 I think that's the question I just asked you. 16 why don't you answer that question as you rephrased it. 17 What potential exposures do you think Mr. Hoffman 18 had to asbestos during his occupational and 19 para-occupational career? 20 Well, there were numerous potential asbestos 21 exposures that I believe he may have had. But there's 22 more evidence that needs to be developed to prove all of 23 those. 24 But, for example, fireproofing, it appears based 25 on his deposition, that he worked with asbestos

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containing fireproofing material and had to scrape it off of structural metal support beams in order to hang his hangers on the beams to support the plumbing that he was going to install in the building. And he said that he scraped the -- what he described as asbestos containing fireproofing hundreds of times. So that was certainly a source of significant asbestos exposures.

He said he also cut Transite pipe at numerous -- on numerous projects and cut it with a saw, power saw, as well as a handsaw. That would certainly create significant exposures to asbestos. He said he cut Orangeburg piping, which also contained asbestos, and that would have created a potential for asbestos exposure.

He said he was around drywallers when they were finishing what he believed to be asbestos containing joint compound, and that would have resulted in potential asbestos exposures. He said he was near insulators in his earlier years that were insulating piping, and certainly he would have had a potential of asbestos exposure if it those insulators were using asbestos containing pipe insulation.

And he said he had to clean up at the Ketchikan -- or Ketchikan Pulp plant in his earlier years. He had to clean up after insulators and other

trades; and that he also did a cleanup throughout the pulp mill. And if any asbestos containing materials were involved in his cleanup, then that would have been a potential as well for him to have received asbestos exposures.

He said he used welding rods that had fluxes.

Many welding rods during that time period did contain asbestos in their fluxing material, so that was another potential source of asbestos. And he said he used an asbestos welding blanket when he was doing welding, and that was a significant part of his job, performing the welding. So anytime you used asbestos containing blankets, you have a potential for exposure to asbestos from disturbing those particular blankets.

So those in my view were the most significant potential asbestos exposures that he had during his working career.

- Q. I'm curious: What years did Orangeburg pipe contain asbestos on the West Coast?
- A. I don't recall him identifying the year on that. So that's why I indicated that more information was needed for some of the exposures that he felt he had. And that's the only way we can determine whether or not that particular product did contain asbestos.
  - Q. So is it fair to say that as you sit here today,

you can't tell me one way or another whether or not the Orangeburg pipe that Mr. Hoffman worked with contained asbestos on a more likely than not basis?

- A. No, because he doesn't give the year. And I don't know if at a certain period of time the Orangeburg pipe, which at one time did contain asbestos, whether or not they eliminated asbestos at a certain year, and I don't know what year that would have been. But I know that at one time Orangeburg pipes did contain asbestos.
- Q. But as you sit here today, you can't tell me more likely than not he had exposure to asbestos from his work with Orangeburg pipe; correct?
- A. No, I cannot. There's just not a sufficient amount of evidence to let me know one way or another.

  Just the potential is all that I could indicate, the potential for exposure, if that Orangeburg pipe did contain asbestos and --
- Q. All right. Sir, I'm not critical. I'm trying to figure out -- I'm trying to do this in an expedient fashion. I'm just trying to figure out what your basis is for some of these opinions.

And you had indicated that he worked with a welding rod. What brand or manufacturers of welding rods did he identify? What was the model number and asbestos content of those welding rods?

A. Well, he didn't get that specific -- let me repeat this again: There's not sufficient evidence in some of these alleged exposures to determine whether or not the product did contain asbestos.

He identified that he used Lincoln welding rods with flux, and some Lincoln welding rods did contain asbestos containing flux material. But he didn't identify the particular number, identification number, or any specific identification of the type of Lincoln flux welding rod he used.

- Q. And because of that, you can't tell me to a reasonable degree of scientific certainty that he was more likely than not exposed to asbestos from those welding rods; correct?
- A. The only thing I can say is that he had the potential for exposure, if those in fact were the Lincoln asbestos containing welding rods.
- Q. What is your exposure range that you're aware of for cutting Transite pipe?
  - A. For asbestos containing Transite pipe?
  - Q. Yes.

- A. Did you ask me -- I'm sorry. You cut off a --
- Q. What's your exposure range that you think he had to cutting Transite pipe?
  - A. Well, if he was cutting asbestos containing

Transite pipe, his exposure level was very, very high.

And I've been in plants where they have cut similar products -- it wasn't Transite, but it was Flintkote asbestos containing cement pipes, and the exposure levels during cutting were far in excess of the OSHA permissible exposure limits at that time.

And I don't remember exactly what they were, but they were 20 fibers per CC or above. And I've even seen some reports of exposure concentrations being above 50 fibers per CC.

- Q. And for the record can you identify those reports which you're relying upon?
- A. I'm not relying on those, and I forget where those reports were. I mean I did the sampling as an OSHA inspector at the Flintkote asbestos containing cement pipe factory, but I don't have any specific references on asbestos containing cement pipe exposure levels. But they are in the literature, and the exposure levels were very, very high.
- Q. And did you publish your findings about what you saw at the Flintkote asbestos cement pipe factory?
- A. No. As an OSHA compliance officer, you weren't allowed to publish the results of surveys that you did at different employer sites. Your role was to issue a citation if the exposure levels exceeded the federal

limits at that time.

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- Q. What do you think his exposure levels were from working including up at the Ketchikan Pulp mill?
- A. Again, as I indicated, there wasn't sufficient information provided in his testimony for me to give an approximation of his exposure levels.

In other words, he said he did cleanup around insulators and other crafts, but he didn't indicate what type of material he was cleaning up -- whether it was asbestos containing cement, asbestos containing thermal insulation or anything like that -- and he didn't indicate how much he was cleaning up. And all of those factors would determine what his possible exposure levels may have been.

But without those factors, I can't give a range of what his exposure level to asbestos would have been; other than to say that if he was cleaning up asbestos containing friable materials, then he would have had some exposure to airborne asbestos fibers.

- Q. And then do you think he had a para-occupational exposure from his father's work as a pipefitter at the Ketchikan Pulp mill?
- A. Again, there wasn't sufficient information provided in his testimony for me to make any kind of judgment or offer any kind of opinions. He said his

father was a welder, and his father came home from work in his work clothes, and his mother did the laundry.

But there's no information such as the type of work his father did, whether he worked with asbestos containing materials, whether he took a shower before he came home, whether he blew off his clothing before he came home; none of that information that you really need to determine a potential for secondary exposures was provided in his testimony.

- Q. Let me ask you this: Are you familiar with pulp mills at all?
  - A. Pardon?

- Q. Are you familiar with paper and pulp mills?
- A. I've been in paper and pulp mills, yes.
- Q. Have you ever testified in a paper and pulp mill case before?
- A. I don't think so. I've given some statements of opinions, but I've never testified on that particular subject.
- Q. I want you to assume that Larry's father, Doyle, worked as a pipefitter welder, and that he disturbed asbestos containing pipe insulation and that he worked around individuals disturbing thermal insulation on blankets, as well as cutting and removing thermal insulation and mixing asbestos containing cement.

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1 In addition, he also did not change his clothes before 2 he came home and did not take a shower. 3 With that set of hypotheticals, would that change 4 any of your opinions? 5 MS. JOHNSON: Objection; calls for speculation; 6 assumes facts not in evidence. Malika Johnson for Ketchikan. 8 THE WITNESS: You're asking me to make 9 assumptions that aren't based on facts or scientific 10 evidence. And I have a real problem with giving an 11 opinion that is not based on facts and evidence in the 12 case. 13 BY MR. PEARCE: 14 Are you trying to tell me you can't answer a 15 hypothetical? 16 What I'm saying is you're asking me to give 17 an opinion that's not based on facts that were presented 18 in the case and making me assume a lot of things that 19 have not been established as evidence in the case. 20 So, therefore, you're asking me to make a very 21 unscientific evaluation and give a very unscientific 22 opinion, and I would prefer not to do that. 23 All right. Have you reviewed the declaration of 24 Mr. Guyon in this case, G-u-y-o-n? 25 A. No, I have not.

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And, sir, do you remember being involved in a case by the name of Terry which was in the circuit court for Knox County Tennessee? Α. I'm sorry. Can you repeat. Q. Do you remember being involved in a case by the name of Gary W. Perry and Patricia M. Perry v. Armstrong International? In that case you were deposed on September 11, 2008, and the case was venued in the circuit court for Knox County, Tennessee. Α. Was that Gary Perry and was that a Goulds Pumps case? 0. Well, yes, it was Gary Perry, and, yes, Goulds Pumps was in the case --Α. Yes, I do remember I gave a deposition in that. So do you remember saying in that deposition saying, "As a pipefitter, the pipefitters are usually not too far in front of the insulators. And in many cases, in many circumstances, the pipefitters are exposed to the same types of exposure, the same levels of exposure. Depending on their distance from those insulators, they're exposed to similar levels of airborne asbestos as the insulators." Do you recall saying that? That may have been true in that case. I don't

remember the specifics of that. I'd have to go over all

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the depositions in that case. But I don't deny that I said that, but I don't remember the specifics of that So I mean -- it's a matter of record that I did say that. And as a pipefitter, if you do work very close to insulators, you can be exposed to similar concentrations. But in general, the concentrations are less than the insulator would be exposed to, and it's determined by distance and air currents. The farther away you are, as a pipefitter from insulators, the lower your exposure levels would be. Are you familiar with shutdowns that happen in 0. pulp and paper mills? Α. Yes, I am. Q. What happens during a shutdown? Well, that's typically where those mills do their major maintenance and repair operations, and they shut down much of the mill to work on the equipment. Q. And I'm curious: What materials would have been used at the paper and pulp mill in Alaska that were not asbestos containing? What insulation materials were used that could handle 800 degrees of heat --MS. JOHNSON: Objection; calls for speculation. MR. PEARCE: -- during the 1960s? THE WITNESS: Yeah, are you talking about

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1 insulating materials? Because that sounded kind of 2 broad to me. 3 MR. PEARCE: Yeah, insulating -- pipe covering 4 and --5 THE WITNESS: Because you can -- steel will take 6 that, and almost any metal will take that kind of temperature. 8 But for insulating materials -- again, we're 9 talking about the late '60s. Most of the thermal 10 insulating materials used in -- not only that mill but 11 many other mills where there were hot processes, most of 12 the thermal insulation used did contain asbestos. 13 BY MR. PEARCE: 14 Q. Okay. And have you reviewed anything in this 15 case with regards to Kewanee specifically? 16 I reviewed their response to the defendants' 17 questions -- I'm sorry. To the plaintiffs' 18 interrogatories. 19 Q. And do you know -- is Kewanee --20 Α. And their summary judgment motion. 21 Okay. And have you reviewed, for example, their Q. 22 person most qualified's deposition testimony? 23 I haven't read any depositions of their corporate 24 reps or anything like that, no, I haven't -- other than 25 reading the Oakfabco -- or the corporate rep who was --29

1 let me see where is his name -- no, I quess just their 2 summary judgment is all that I reviewed for Kewanee. 3 Do you know what years Kewanee manufactured Q. 4 boilers which contained asbestos containing gaskets? 5 No, I don't know what particular years. 6 they went way back in their boiler production, manufacturing and sales operations, but I don't know 8 exactly what years they began manufacturing and selling 9 Kewanee boilers. 10 And my question is a little bit different, but 11 that's okay. 12 Do you know if Kewanee sold replacement gaskets? 13 Repeat that. Α. I'm sorry. 14 Q. Do you know if Kewanee sold replacement gaskets 15 for its boilers? 16 No, I'm not aware whether they did or they did 17 not. 18 All right. Do you have an opinion about whether 19 or not Mr. Hoffman would have been exposed to asbestos 20 in the replacing of asbestos containing gaskets in 21 association with Kewanee boilers? 22 Well, he basically was asked whether he replaced 23 any asbestos containing rope packing -- or sometimes 24 people refer to that as gasketing as well -- but he 25 indicated that he did not think that he was involved in

any gasket or rope replacements when working on a

Kewanee boiler, at least the two to three Kewanee

boilers that he worked on. In fact he said not on those

two particularly, no, when he was asked if he changed

the rope on the doors.

Q. I want you to assume what he actually said was, "I don't have a specific recollection of changing the rope on those Kewanee boilers, but that's what we did. That was our custom and practice." Okay.

Do you have an opinion based upon that set of hypotheticals about whether or not Mr. Hoffman had exposure to asbestos while changing out the gaskets associated with those Kewanee boilers?

A. Well, you just asked me to assume something that's contrary to the plaintiff's deposition and testimony, which is the first time I've ever been asked that type of a question.

Because Mr. Hoffman was asked with respect to the doors of the Kewanee boilers and the rope on those doors, was that ever replaced, and did he ever recollect replacing the rope on the door; and he answered, "Not on those two particular, no."

So I don't know why you would ask me to assume that he answered that question differently, which is misstating.

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1 Dr. Gregory, do you understand that you're 2 not a fact witness? 3 No, but you're asking me to --Α. 4 Q. No, no --5 -- you take a contrary --6 Yes or no; do you understand you're not a fact Ο. witness? 8 Α. Yes, I understand that. But I'm telling you --9 Q. Hold on --10 -- Mr. Hoffman testified to, which is a fact. Α. 11 Q. Sir, I'm trying to get this done as soon as I can 12 here. Okay. 13 If I were to call you, you would give the same 14 answers that you've given to Mark; right? 15 you're an expert, and you don't really have a dog in the 16 fight. You just want to give your most honest opinions; 17 is that right? 18 That's right. Α. 19 Q. So I want you to assume, then, that he, 20 Mr. Gregory, worked with gaskets associated with those 21 Kewanee boilers and that he scraped out those gaskets. 22 Do you have an opinion about whether or not this 23 removal of gaskets causes a person to be exposed to 24 asbestos? If you don't, you don't; that's fine. 25 MR. ANDRE: Hold on. Object to the form of the

1 question. Bob Andre. 2 And you can answer it to the extent MR. TUVIM: 3 that assuming that's a fact, even though contrary to 4 Mr. Hoffman's deposition --MR. PEARCE: Mark, I thought you were in 5 6 Washington. Only form objections. MR. TUVIM: I'm just trying to get him to the 8 point where he can answer the question for you. 9 Assuming that is a fact, do you have an opinion? 10 THE WITNESS: Okay. So let me preface this. 11 Assuming that what you said was a fact -- which was 12 contrary to Mr. Hoffman's testimony -- assuming that he 13 removed asbestos containing rope gaskets, which is not 14 supported -- in fact it's contrary to the evidence --15 then my opinion is that he may have been exposed to 16 asbestos, but also he may not have been exposed to 17 asbestos, depending upon the conditions under which he 18 was working. 19 BY MR. PEARCE: 20 Ο. And if he was exposed to asbestos from removing 21 those gaskets, do you have a range of exposure? 22 Well, if you're removing rope packing or rope Α. 23 gaskets -- as I indicated sometimes people refer to them 24 as -- and if you're downwind from that operation and the 25 rope packing or gasket is very dry, and you're using

very aggressive methods to remove it -- in fact those methods involved breaking it up into small pieces and those types of operations -- you would have the potential of being exposed to low levels of asbestos fibers.

- Q. And when you talk about low levels, do you have a range for me?
- A. I would say anywhere from nondetectable concentrations up to -- over a short term, perhaps .4 fibers per CC, and that would be your highest potential level of exposure for very short period of time. Again, assuming that you're downwind and you're using very aggressive methods and you're removing very dry packing material.
- Q. Do you agree with your former employer's statement, OSHA, that every occupational exposure to asbestos can cause injury or disease?
  - A. I'm sorry. You cut out.
- Q. Do you agree with your former employer's statement, your former employer being OSHA, who has said that every occupational exposure to asbestos can cause injury or disease? Do you agree with that statement?
- A. I don't agree with that because you and I have been exposed -- and everyone in the country when they take their first breath is exposed so -- so I don't

believe that OSHA would take that position.

In fact OSHA is mandated by the U.S. Congress and the Supreme Court to establish the most protective exposure standards that are available to ensure that no employee will suffer material impairment of health.

So I don't agree -- if that's a statement that was -- that you found that was made by an individual, I would find it very unlikely that OSHA would publish that as official policy. If they did, then they're not following the OSHA act, the U.S. Congress or the Supreme Court, which has mandated that they set standards that are protective, and the most protective, and that will prevent material impairment of health to all working employees.

- Q. Let me ask this a slightly different way: Are you of the opinion that each exposure to asbestos above background levels increases a person's risk of developing disease?
- A. Let me just repeat that because it was chopped out again. You're asking me if I agree that any exposure above background level increases the risk of --
  - Q. Developing an asbestos related disease.
  - A. No, I don't agree with that.
- Q. And what medical literature can you cite me to to support your opinion on that?

A. Well, there's been many epidemiological studies that have been published in the past years that have shown that for all forms of asbestos, there is a threshold dose below which no diseases occur, and that's considered a threshold exposure dose.

And, for example, Ilgren, I-l-g-r-e-n, and Browne, spelled B-r-o-w-n-e, in 1991 did an epidemiological study, and they found a threshold exposure dose of around five fiber per CC years; meaning that as long as you didn't exceed that cumulative dose of five fibers per CC years, there was no increased risk or cases of mesothelioma.

And that was followed in 1998 by Hansen, et at., and they established a range of threshold doses, and the lowest range or the lowest threshold dose that they reported was seven fiber per CC years. And then that was followed by Whitehouse, et al., in 2008, and they established a lower threshold dose of -- and they gave a range from 2.2 to three fiber per CC years.

And there's been others that have looked only at chrysotile asbestos, for example, and those authors have given much higher threshold doses ranging from 25 fiber per CC years all the way up to 1,000 fiber CC years for chrysotile asbestos exposures. And those authors include Pierce, et al., in 2008; Berman and Crump in

1 2003; Bernstein and Hoskins in 2006; and a couple of 2 earlier ones, Wagner in 1980, and Kevin Browne in 1986. 3 And there's been many, many, other studies, but 4 those are the ones that I found to be most reliable and 5 most scientifically valid. 6 Is it fair to say that you're of the opinion that there is a safe level of exposure to asbestos? 8 Yes, in my opinion there is a safe exposure dose Α. 9 to asbestos. And, again, if there were not, we'd all 10 have it. Is there a safe exposure dose above background 12 levels? 13 And let me finish that answer: If there wasn't 14 safe exposure dose, we would have all have asbestos 15 related diseases. Because we've all been exposed to 16 asbestos; it's ubiquitous in our environment. And if there was no safe level, then we would all have asbestos related diseases. 19 Q. Is there a safe level above background that a 20 person can be exposed to and not be at increased risk of 21 developing a disease? 22 Yes. And that's all in those studies that I 23 recited, their threshold doses. In other words, a dose 24 is exposure concentrations times duration. So it's not

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just the instantaneous concentration that you're exposed

1 to; it's how long you're being exposed to that on a 2 cumulative basis that determines your exposure dose. 3 And if that's above these threshold levels that I 4 indicated for the authors that I listed previously, then 5 you have an increased risk of developing mesothelioma. 6 All right. Sir, have you reviewed the Millette paper of studies that determined asbestos fiber release 8 during the removal of valve packing? 9 Α. I have reviewed that in the past. 10 Have you reviewed McKinnery, M-c-K-i-n-n-e-r-y, 11 Evaluation of Airborne Asbestos Fiber Levels During 12 Removal and Installation of Valves Gaskets and Packing? 13 Yes, I have reviewed that in the past. Α. 14 Q. And your range of exposure to removal of gaskets, 15 where does that come from? 16 That's Madl, M-a-d-l, et al., 2007; and their 17 studies included the authors and the publications that 18 you just talked about. So the range I gave you was 19 actually a compilation and an average of all the valid 20 gasket and packing studies that had been performed up 21 until around 2007. 22 And do you have any opinions in this case with 23 regards to American Standard? 24 Based on my review of the depositions in 25

this case, there's no indication that he performed work

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on the American Standard boilers other than service work and installation work. And there's no evidence from his testimony that during those operations he was exposed to asbestos containing materials; although he said that he did change out gaskets on the doors or the firebox or the burner plate, he wasn't sure which one he changed gaskets out of.

If those gaskets contained asbestos -- which we don't know one way or the other that they contained asbestos, and there's no evidence from the testimony that indicates that those contained asbestos. And he didn't say that he removed any American Standard boilers, just that he installed American Standard boilers. And he was asked if he ever came in contact with any insulation on an American Standard jacketed boiler, and he said, "I may have touched it once or twice."

So just based on his testimony, and even assuming that he changed gaskets on the doors or the firebox or the burner plate, and assuming that those contained asbestos -- which is not supported by the evidence in this case -- it's my opinion that based on the fact that he said he only worked on a dozen American Standard boilers, as far as servicing those boilers, then it's my opinion that he was not exposed to significant

concentrations of asbestos from the work that he performed on American Standard boilers;

And that his exposures from all the other potential asbestos containing products and materials that he described during his career were much, much higher and resulted in much higher exposures than any work that he performed on American Standard boilers.

In fact his exposure, in my opinion, from all the other sources that he listed far exceeded and rendered insignificant any asbestos exposures that he may have received from working with American Standard boilers, even assuming that he changed asbestos containing gaskets on the American Standard boilers' doors or the firebox or the burner plate, which is not supported by the evidence in this case.

- Q. Quick question for you: You're with the American Standard attorney; correct?
  - A. Pardon?

- Q. You're sitting right now next to the American Standard attorney; correct?
  - A. That's correct.
- Q. Have you asked him whether or not those gaskets were asbestos containing or not?
- A. I didn't ask him that. I just have to go on the affidavits and the information in the motion for summary

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judgment from Trane. And that involved -- and I don't see the affidavits -- here it is. So the declaration of Dennis Dorman, for example, who was a Trane engineer for 38 years with Trane, Incorporated, which eventually -- well, predecessor to Trane was American Standard. And it indicated in that declaration that Trane never specified, recommended or used asbestos containing insulation gaskets or packing in Trane air handling units -- we're talking air handling units here and not the American Standard furnaces.

But on that note or on that topic, Richard
Olson's affidavit of October 14th, 1999, it indicated
that from 1950 forward, every jacketed boiler
manufactured and sold by American Standard contained
fiberglass insulation; and the American Standard boilers
that were not jacketed were not insulated by American
Standard but were shipped bare metal without insulation.

And Mr. Olson, I remember from other cases, also indicated that the sections of American Standard sectional boilers were not put together with any kind of packing or gasketing material. And also Mr. Olson indicated that the jacketing was a fiberglass material from 1950 on.

And from my past work with American Standard cases, that's been my understanding, that Richard

1 Olson's testimony -- who was a qualified engineer who 2 was in charge of product management for boilers -- he 3 was very knowledgeable in the construction of their 4 boilers. And he indicated that American Standard only 5 used fiberglass insulation inside the jackets from 1950 6 on, and they didn't use any rope packing on their boilers because the cast iron sections of the boilers 8 sealed together with a push nipple or a metal type of 9 design. 10 Do you have any plans to do any further work on 11 this case? 12 Α. I'm sorry? 13 Do you have any plans to do any further work on this case? 14 15 Only if I'm asked by Mark Tuvim. 16 And do you have any PowerPoints or trial exhibits 17 prepared? 18 I'm sorry. I hate to have you keep repeating 19 that but --20 Do you have any PowerPoints or any other trial 21 exhibits prepared for this case? 22 Not at this time, and I haven't been asked to 23 prepare any. 24 0. And you are --25 Α. I'm sorry. You cut out again --

1 Tim, it would be helpful if you 2 picked up your receiver. I know it's not the most 3 convenient. 4 BY MR. PEARCE: 5 And what was your income last year from doing 6 asbestos related litigation work? For American Standard? Α. 8 Q. No, in general. 9 Α. It was in excess of over \$200,000. 10 0. And what about the year before that? 11 Much less than that. Part of that year I was 12 working full time and only doing this type of work on 13 the side. And by the side, I mean I had permission from 14 my employer; I did it on vacation time, on weekends and 15 in the evenings. 16 MR. PEARCE: I don't have any other questions. 17 MR. ANDRE: This is Bob Andre on the phone. Can 18 you hear me, Mr. Gregory? 19 THE WITNESS: Yes, I hear you. 20 MR. ANDRE: The plaintiffs' counsel asked you if 21 you have any opinions on American Standard boilers. 22 Do you have any opinions in this case on the Kewanee 23 boilers? 24 THE WITNESS: Yes. Based on Mr. Hoffman's 25 testimony that he only cleaned two to three Kewanee

boilers and that he only cleaned the tubes, and that in the process of cleaning the tubes, he was not handling any asbestos containing components -- based on that information, it's my opinion that he was not exposed to significant concentrations, if any concentrations, of asbestos from his work on Kewanee boilers.

And he indicated that he couldn't remember any asbestos on the outside of the Kewanee boilers, and there's just no evidence to indicate that he disturbed any asbestos containing materials associated with the boiler, and he didn't indicate that he changed any gaskets or packing for that matter.

In fact when he was asked if he changed any gaskets or rope on the doors of the Kewanee boilers, he said, "Not on those two particularly, no." So in my opinion there's just no evidence that he had any exposures to asbestos as a result of his work with Kewanee boilers.

MR. ANDRE: Thank you very much, Mr. Gregory. No more questions.

THE WITNESS: You're welcome.

MR. TUVIM: Anyone else? This is Mark Tuvim.

I'll have these exhibits scanned and sent on Monday when

I'm back in my office. And we'll reserve signature if
the deposition is ordered. Okay. Signing off.

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               (Whereupon, at the hour of 12:09 p.m., the
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               deposition was adjourned.)
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1	DECLARATION UNDER PENALTY OF PERJURY	
2		
3	I, EARL D. GREGORY, PH.D., CIH, do hereby certify	
4	under penalty of perjury that I have read the foregoing	
5	transcript of my deposition taken on January 30, 2015;	
6	that I have made such corrections as appear noted on the	
7	Deposition Errata Page, attached hereto, signed by me;	
8	that my testimony as contained herein, as corrected, is	
9	true and correct.	
10		
11	Dated this,	
12	20, at, California.	
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16	EARL D. GREGORY, PH.D., CIH	
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1	DEPOSITION ERRATA SHEET	
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25	EARL D. GREGORY, PH.D., CIH DATED	
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1	STATE OF CALIFORNIA )
2	COUNTY OF SAN FRANCISCO )
3	
4	I, Giselle Girard, a Certified Shorthand
5	Reporter, do herby certify:
6	That prior to being examined, the witness in
7	the foregoing proceedings was by me duly sworn to
8	testify to the truth, the whole truth, and nothing but
9	the truth;
10	That said proceedings were taken before me
11	at the time and place therein set forth and were taken
12	down by me in shorthand and thereafter transcribed into
13	typewriting under my direction and supervision;
14	I further certify that I am neither counsel
15	for, nor related to, any party to said proceedings, nor
16	in any way interested in the outcome thereof.
17	In witness whereof, I have hereunto
18	subscribed my name.
19	
20	Dated: February 4, 2015
21	S. NDTC.
22	NAME OF THE PARTY
23	3/101/2
24	Giselle Girard CSR No. 12901
25	

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     U.S. Legal Support, Inc.
                                              February 4, 2015
      44 Montgomery Street
2
     Suite 550
      San Francisco, California 94101
3
4
     EARL D. GREGORY, PH.D., CIH
     C/O:
          MARK B. TUVIM, ESQ.
5
     GORDON & REES, LLP
     701 Fifth Avenue
6
     Suite 2100
     Seattle, Washington
                           98104
7
8
          Larry Hoffman vs. Alaskan Copper Companies, Inc.
     Re:
9
     Date of Deposition:
                           January 30, 2015
10
     Dear Earl Gregory,
11
             The original transcript of your deposition taken
      in the above-referenced matter is available at this
12
     office for your review.
                              If it is more convenient to
     read a copy of the transcript and waive signature of the
13
     original transcript, please notify our office by letter
      sent certified or registered mail of any changes made,
14
     with copies sent to all counsel.
             In the event you have not read, corrected and
1.5
      signed your deposition within thirty (30) days of the
     receipt of this letter, it may be used with the full
16
      force and effect as though it had been read, corrected
     and signed.
17
             If you wish to arrange an appointment to review
      the original transcript, please contact this office at
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      (415) 362-4346.
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                                     Sincerely,
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                                     U.S. Legal Support
                                     Production Department
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     Cc: All counsel
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           The deponent
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     Original: Original transcript
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